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**RESEARCH PRODUCT 80-2** 

SQUAD LEADER'S GUIDE FOR CHAPARRAL SKILL RETENTION RESEARCH

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March 1979

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U.S. ARMY RESEARCH INSTITUTE for the BEHAVIORAL and SOCIAL SCIENCES

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The Training Technical Area of the Army Research Institute for the Behavioral and Social Sciences (ARI) has actively pursued a program of research in support of the systems engineering of training. A major focus of this research is to develop the fundamental data and technology necessary to field integrated systems for improving individual job performance. Such systems include Skill Qualification Testing (SQT), job performance aids, training courses in schools and in the field, performance criteria, and management and feedback systems. This research product was a job performance/training aid for squad leaders involved in the Chaparral skill retention experiment reported in ARI Research Report 1205. The work was accomplished by ARI personnel under Army Project 2Q163731A770, FY 1978, "Performance-Oriented Individual Skill Development and Evaluation" for the Training Developments Institute, Training and Doctrine Command (TRADOC), with the combined support of the Deputy Chief of Staff for Training, TRADOC; the Deputy Chief of Staff for Operations of the Army, Europe; and the Commander, US Army Air Defense Center and Fort Bliss, Fort Bliss, TX.

> JOSEPH ZEIDNER Technical Director

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What you're going to learn here. In this short course, you'll be learning (or maybe reviewing, if you've done this sort of thing before) the following things:

- How to give effective performance-oriented training,
   including how to give an effective demonstration and
   to supervise practice;
- How to decide what refresher training may be required when people fail particular items on the test;
- 3. How to get the equipment ready and to conduct and score the performance test;
- 4. Finally, how to take the test yourself, so that you will definitely be the "expert" when the time comes to give it to someone else.

What are the tasks? The tasks selected for this research program are ones that a number of squad leaders have agreed that they would be most likely to assign to a new AIT graduate if they could trust him to perform without hurting himself or damaging the equipment. They include the following: preenergize, energize, and deenergize the launch station (part of the daily routine); perform the daily preoperation checks on the carrier; install and operate the TA-312/PT field telephone; and do the operational checks on the TADDS. They're all things that are likely to be done by a new man, and they're all covered by step-by-step procedures in various tech manuals. Part of the test involves requiring the man to use the procedures in the manuals as he performs the tasks. You will have a scoresheet for each test (we'll see the scoresheets later), and the scoresheet will be keyed to the TM procedure, so the man must follow the TM in order to be performing the same task that you're scoring.

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What happens to a guy who fails? First of all, it's important for you and your men to realize that THIS IS NOT AN SQT. The results of the testing and training will be used by the Army Research Institute to help decide on ways to improve both resident training and OJT, but even ARI won't be able to associate people's names with their results when it's all over. So really, the only thing that happens to a guy who fails part of a test is that he gets better at doing his job. And you get better at doing yours.

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Just what will you have to do to the new man? Through about October, every new AIT 16P graduate who is assigned to Germany will be tested before he leaves Ft. Bliss. When one of these men is assigned to your squad, your first responsibility will be to test him again, within two weeks following his arrival in the unit. The fact that you're receiving this training means that you're probably due to get one of these new men pretty soon, or possibly you already have him. As the attached record sheet shows, there are three collections of things ("FIRST," "SECOND," and "FINAL") that you will be doing to this new man. First, within two weeks after his arrival, you will be responsible for the things in the "FIRST" section: test him, give him refresher training in areas where he misses items on the test, and test him one more time (only on the tests that were NO GO the first time). Next, you'll do the whole thing (test--refresher training as needed--test) again, in a month or so. The research program representative will tell you exactly when to schedule this "SECOND" drill. Finally, about four months after the first cycle, you must schedule the "FINAL" administration of the test (again, the program representative will tell you exactly when to schedule this event). For some soldiers, you will not go through the "SECOND" drill, but only the "FINAL" drill (the program representative will tell you). At this point, your participation (and the participation of your squad member) in the study will be finished.

Then what? After you have administered and scored the test for the third time, it will be your choice: you can provide refresher training (if it's needed) and continue to use the test-train-test method of performance oriented training, if you've found that it offers benefits for your squad's proficiency, or you can drop the whole thing. By the same token, you can do the testing and training with other members of your squad who are not new AIT graduates.

What's in the rest of this book? You will be able to keep this note-book when we're finished. In later sections you will find an outline of the material being presented to you: giving an effective demonstration, giving performance tests and training, and administering the special tests and training for this particular program. At the back of the binder there are a couple of blank pages you can use to take notes.

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Test 1—Test 2—Test 3—Test 4—Test 5—Test 5—Test 6—

### SECTION 2

# ADMINISTERING THE CHAPARRAL PERFORMANCE TESTS AND TRAINING

As a Squad Leader, you will be responsible for administering all parts of the performance-oriented refresher training. The refresher training covers six major tasks.

- 1. Preenergizing the launch station.
- 2. Energizing the launch station.
- 3. Deenergizing the launch station.
- 4. Performing carrier before operations PM checks.
- 5. Performing operational checks on the TA-312/PT Field Telephone.
- 6. Performing emplacement and operator checks and adjustments on the TADDS.

Each major task has its own performance test. In the performance test, the major task is divided into steps. It will be your job to administer the performance test; score each step as the examinee performs it; and, if necessary, administer refresher training. Each performance test has a list of required equipment, a list of required personnel, directions on how to prepare the equipment for the test, and administration procedures to tell you how to give the test.

### Administering Performance Tests

- 1. For a test to be a good measuring instrument, it must be reliably administered.
- 2. Reliable test administration depends partly on the test—it must permit objective administration. When a performance test specifies the testing conditions and the performance standard, it can be administered

objectively--you can see that the testing conditions are met, see that no step is omitted, see that each step is performed correctly, and see that the time limit is met.

- 3. Reliable test administration also depends on those who administer it—in this case, each of you. This means that you must insure that all conditions are the same for each student you test.
- 4. To give the test properly, do this:
  - a. Always read the test instructions to the examinee in the same tone of voice, insuring that each examinee understands the instructions completely. If the examinee fails to understand the first time, repeat the instructions one more time.
  - b. Score each examinee on <a href="each">each</a> performance measure of each test and check his score sheet pass or fail. Do not assume that an examinee who completes a few steps of the test correctly can complete all steps correctly.
  - c. Take all precaution necessary to insure that soldiers waiting to be tested cannot see the performance or hear you give the instructions to the examinee.
- 5. Each examinee must be given the same chance to demonstrate his competence as every other examinee taking the test. To achieve this goal, you must adhere strictly to the following guidelines:
  - a. Do not administer a test unless all examinee materials and equipment are on hand and operational. Also, all test conditions, as specified, must be met. All examinees must encounter the same conditions and have the opportunity to achieve the same standards.

- b. <u>Do not</u> influence, by verbal comments, gestures, facial expressions, or the like, an examinee's performance in any way. <u>Do not</u> answer questions of the examinee, once the test has begun.
- c. <u>Do not</u> wait until the end of the test to fill in the score sheet. Make the checks on the score sheet as the actions are performed.
- d. After each test is completed, tell the examinee whether he received a GO on that test. If he <u>failed</u> some performance measures, tell him (at the end) what he did wrong and record the reason on the score sheet.
- e. Follow the procedures prescribed for your unit for giving <u>refresher training</u> to examinees who <u>fail</u> some part of the test(s).

### Administering the Chaparral Performance-Oriented Refresher Training

1. Look at the score sheet for the TADDS performance test (Test No. 6) at the back of this book. While the examinee is taking this test, you will score his performance on each step either PASS or FAIL. After the examinee has completed the entire test, if he has passed all of the steps, you will mark his score sheet GO. If the examinee has failed one or more of the steps, you will mark his score sheet and tell him what he did wrong. After you have marked the score sheet, the examinee can go on to the next performance test. You should continue this procedure until the examinee has taken all six of the performance tests. After the examinee has completed all of the tests, examine each score sheet carefully to determine what refresher training is needed. What refresher training the examinee will take is

determined by what step or steps the examinee failed to perform correctly. For example, if an examinee passes all of the steps in the TADDS test except Step 6, you should direct him to take only the refresher training indicated in the Refresher Training column of the score sheet for Step 6. For Step 6, you should show the examinee how to properly check the SIG AND BAT meter for the proper reading. You should not give him refresher training for any of the other performance test steps, because he has already demonstrated that he knows how to correctly perform them.

2. After the examinee has completed the refresher training for all of the score sheets which indicate a failed performance measure, have him retake only the tests for which he had received a FAIL on some performance measure. If he still does not receive a GO for all tests, give him the appropriate refresher training and then have him retake the test or tests again. Continue this procedure until the examinee has received a GO for each of the six performance tests.

### SECTION 3

### EFFECTIVE DEMONSTRATION

### Introduction

- 1. WHEN YOU ARE GIVING ONE OF YOUR MEN REFRESHER TRAINING,
  YOU WILL OFTEN BE REQUIRED TO DEMONSTRATE HOW TO PERFORM A PARTICULAR TASK. HOW WELL AND HOW FAST YOUR
  MEN WILL LEARN THE TASK WILL DEPEND ON THE EFFECTIVENESS
  OF YOUR DEMONSTRATION. IF YOU GIVE A GOOD DEMONSTRATION,
  IT WILL BE EASY FOR YOUR MEN TO LEARN THE TASK. DURING
  THIS CLASS YOU WILL BE LEARNING THE PRINCIPLES OF
  EFFECTIVE DEMONSTRATION AND HOW THESE PRINCIPLES CAN
  SERVE AS GUIDELINES IN PRODUCING AN EFFECTIVE DEMONSTRATION. (Issue each squad leader a TADDS.) WE WILL
  ALL WORK WITH THE TADDS DURING THIS CLASS.
- 2. THE TRAINING OBJECTIVE FOR THIS DEMONSTRATION IS THAT YOU WILL BE ... TO PERFORM THE TADDS BATTERY VOLTAGE CHECK AND DETERMINE IF THE INDICATIONS YOU OBTAIN ARE CORRECT.
- 3. I WILL FIRST DEMONSTRATE FROM ONE POSITION, WHILE YOU FOLLOW ME, AND THEN FROM ANOTHER POSITION, WHILE YOU FOLLOW, TO SEE IF THERE IS ANY DIFFERENCE IN THE WAY YOU CAN LEARN THE PROCEDURE.

# <u>Pemonstration - Not from Student's</u> <u>Viewpoint and Without an Explanation</u> of Each Step

(Stand facing the students with the face of the TADDS
 where it can be seen and heard by all students and
 demonstrate slowly the performance of the TADDS Battery
 Check procedures. <u>Do not</u> explain any step during the
 demonstration.)

- 2. NOW I WILL DEMONSTRATE EACH STEP SLOWLY WHILE YOU WATCH. THEN I WILL DO IT AGAIN SLOWLY WHILE YOU PERFORM THE SAME ACTIONS AS I DO. (On the second run-through, require all students to attempt performance of the test. Most will become hopelessly confused. When this happens, stop and ask questions.)
- 3. "WHAT AM I DOING WRONG?" Someone will say, "You didn't turn the Power switch on when you began the test," or "we can't see the battery voltage meter," or the like, meaning: (DEMONSTRATE FROM THE STUDENTS' VIEWPOINT.) (Write that principle on the chalkboard, and tell the students to write it on the note sheets in their notebooks, leaving space below to add something later.)
- 4. WHAT ELSE SHOULD I HAVE DONE DURING THE DEMONSTRATION?

  (If you get no response, ask, "DID I EXPLAIN HOW TO DO ANY ONE STEP? NO!" Put on the chalkboard and ask the students to write: CAREFULLY EXPLAIN EACH STEP

  AS YOU DEMONSTRATE. Be sure to leave a space on the board under each principle.)

# Demonstration from the Student's Viewpoint with Explanation

- 1. (Turn your back to the students--and slowly demonstrate and carefully explain each step and emphasize each critical (key) point.)
  - NOW I'LL DEMONSTRATE FROM YOUR VIEWPOINT AND EXPLAIN EACH STEP. AS I SHOW AND EXPLAIN, YOU DO AS I DO AND YOU CAN LEARN THE PROCEDURE RATHER EASILY. BE SURE TO ASK QUESTIONS IF YOU DO NOT UNDERSTAND. BEFORE WE FINISH, YOU WILL BE ABLE TO PERFORM THIS TASK.
- 2. (Demonstrate and explain two or three times or until most students can perform correctly, then individually coach the slower learners. As each performs correctly, tell him, "You are a 'GO'.")

- 3. DID YOU NOTICE ANYTHING IN PARTICULAR THAT I SEEMED TO EMPHASIZE? (If students fail to respond, point out that you emphasized cricical (key) points things they must do to perform the task correctly and easily—and illustrate with several instances.)
- 4. THERE IS ANOTHER PRINCIPLE WE SHOULD NOTE AT THIS POINT: WHAT DID I ASK YOU TO DO AS I SHOWED AND EXPLAINED THE TASK? (A student may say, "We tried to do it," or the like.) THAT IS A VERY IMPORTANT PRINCIPLE BECAUSE THE STUDENT STARTS TO LEARN IMMEDIATELY BY DOING. (Write on chalkboard:

  REQUIRE STUDENTS TO PERFORM AS YOU DEMONSTRATE AND EXPLAIN.)
- 5. YOU SHOULD ALSO BE AWARE OF THREE OTHER PRINCIPLES OF EFFECTIVE DEMONSTRATION. COULD YOU CLEARLY SEE WHAT I WAS DOING? (The answer should be "Yes." Put on the chalkboard under "Demonstrate from the Students' Viewpoint": BE SURE THE STUDENTS CAN CLEARLY SEE YOUR DEMONSTRATION.)

COULD YOU HEAR MY EXPLANATION? (The answer should be "Yes." Put on the chalkboard under "Carefully Explain each Step as you Demonstrate": BE SURE THE STUDENTS CAN HEAR YOU.)

DID I USE WORDS YOU COULD EASILY UNDERSTAND? (The answer should be "Yes." Put on the chalkboard under "Be Sure the Students Can Hear You": <u>USE WORDS THE</u> STUDENTS CAN UNDERSTAND.

### Review Process

1. (The TADDS should be open.) IF I NEEDED TO DEMONSTRATE
HOW TO PERFORM THE TADDS BATTERY CHECK, HOW COULD I APPLY
THE TWO PRINCIPLES OF EFFECTIVE DEMONSTRATION--DEMONSTRATE FROM THE STUDENTS' VIEWPOINT and BE SURE THE STUDENTS CAN CLEARLY SEE YOUR DEMONSTRATION? (If the

- students fail to respond, give a demonstration on how to perform a TADDS Battery Check and do not adhere to these two principles. After the demonstration is over, ask the students, COULD YOU SUGGEST ANYTHING THAT WOULD IMPROVE THE DEMONSTRATION THAT I JUST COMPLETED?)
- 2. WHY IS IT IMPORTANT TO FOLLOW THE PRINCIPLE--CAREFULLY

  EXPLAIN EACH STEP AS YOU DEMONSTRATE? (If the students
  fail to respond, ask them this question, IF I WERE GOING
  TO SHOW YOU HOW TO PERFORM A TADDS BATTERY CHECK, WOULD
  IT BE EASIER TO LEARN IF I EXPLAINED EACH STEP AS I
  DEMONSTRATED IT, OR WOULD IT BE EASIER TO LEARN IF I
  DEMONSTRATED WITHOUT ANY EXPLANATION?)
- 3. IF YOU WERE GOING TO GIVE A DEMONSTRATION ON HOW TO PERFORM A TADDS BATTERY CHECK, WHAT KEY POINTS WOULD YOU EMPHASIZE? (If the students fail to respond, ask them this question, WHAT MUST BE DONE TO OBTAIN A CORRECT BATTERY CHECK?)
- 4. WHY IS IT IMPORTANT TO FOLLOW THE PRINCIPLE—REQUIRE
  STUDENTS TO PERFORM AS YOU DEMONSTRATE AND EXPLAIN?

# Testing the Student's Ability to Demonstrate

1. Take one student at a time out of sight and hearing range. First have him demonstrate, using the TADDS and the student handout, how to perform the TADDS Battery Check. If the student fails to follow the principles of effective demonstration, show him what he did wrong and have him repeat the demonstration until he successfully demonstrates the TADDS Battery Check to your satisfaction. (Repeat this process with each student.)

### SECTION 4

# PHASES OF PERFORMANCE-ORIENTED REFRESHER TRAINING WHEN USING DEMONSTRATION AND PRACTICE AS THE METHOD OF TRAINING

### Introduction

- 1. UP TO NOW YOU HAVE LEARNED THE PRINCIPLES OF EFFECTIVE DEMONSTRATION AND HOW TO GIVE AN EFFECTIVE DEMONSTRATION.
- 2. THE PURPOSE OF THE TASK YOU WILL LEARN NOW IS TO DEMONSTRATE THE PHASES OF PERFORMANCE-ORIENTED REFRESHER TRAINING--DEMONSTRATION, TASK WALK-THROUGH, INDIVIDUAL PRACTICE, AND PERFORMANCE TESTING.
- 3. DURING THIS CLASS, NOTE THE APPLICATION OF THE PRINCI-PLES OF EFFECTIVE DEMONSTRATION. WHEN ALL OF YOU HAVE LEARNED THE TASK, WE WILL DISCUSS WHAT HAPPENED IN RELATION TO THE PRINCIPLES OF EFFECTIVE DEMONSTRATION.
- 4. THE TRAINING OBJECTIVE FOR THE TASK WE HAVE CHOSEN FOR DEMONSTRATION IS THAT YOU WILL BE ABLE TO PERFORM THE TADDS SELF-CHECK WITHIN 5 MINUTES.

### Demonstration

- 1. Give each student a TADDS and the student handout.
- 2. Stress to the students the importance of using the procedures as outlined in the handout.
- 3. Demonstrate using the TADDS and the handout, and explain as effectively as you can at a pace suited to your students until you have covered the content and meaning of each check (stress each point covered in the handout).

### Walk-Through

- 1. NOW THAT I HAVE COMPLETED THE DEMONSTRATION, THE NEXT PHASE IS THE WALK-THROUGH, WHICH MEANS THAT YOU WILL HAVE A PRACTICAL EXERCISE AND PERFORM EACH STEP IN THE SELF-CHECK WITHOUT MY HELP.
- 2. (Coach students who need help:
  - a. If possible, prevent students from making errors.
  - b. Praise students who do well.)

### Individual Practice

- 1. Explain that you have completed the walk-through phase.
- 2. Make sure each student has an operational TADDS.
- Work at your own pace and perform the Self-Check following the outline in the handout.
  - a. Tell the students they may ask for help at any time.
  - b. Assign fast learners to help slower students.

### Performance Test

- Check each TADDS to make sure they are still operational.
   Make sure each student has his handout.
- 2. Brief each student:
  - a. Tell him he has 5 minutes to perform the selfcheck on the TADDS. Ask him if he has any questions, and tell him to begin.
  - b. Stop the student at the end of 5 minutes.
  - c. Score the student, and if he failed any step in the procedure, tell him which step he failed and show him the correct way to perform the check.
  - d. Test each student in the same manner.

### Review of Process

- 1. WE HAVE JUST COMPLETED EACH PHASE THAT WILL USUALLY BE INCLUDED IN PERFORMANCE TRAINING.
- 2. By means of group discussion, ask the students questions on each phase. (Reinforce what each phase contains.)
  - a. WHAT WAS THE FIRST PHASE? (Demonstration)
  - b. WHAT DO WE CALL THE PROCESS WHEN I TELL YOU TO PERFORM EACH STEP WITHOUT DEMONSTRATION? (The walk-through.)

  - d. In summary, ask the students to state what each phase attempts to bring out. (Students should state that the process takes them from the very basics to performing the task correctly within the specified time.)

### SECTION 5

## MORE ON ADMINISTERING PERFORMANCE TESTS AND REFRESHER TRAINING

### Introduction

1. TO OBTAIN ACCEPTABLE RESULTS, PERFORMANCE TESTS AND REFRESHER TRAINING MUST BE PROPERLY ADMINISTERED.

THE OBJECTIVE OF THIS COURSE IS TO TEACH YOU HOW TO PROPERLY ADMINISTER PERFORMANCE TESTS AND REFRESHER TRAINING. (Stress the point that equipment TMs must be used as a standard for the training.)

### Administering Performance Tests

- 1. BEFORE YOU GIVE ONE OF YOUR MEN PERFORMANCE-ORIENTFD REFRESHER TRAINING, YOU MUST FIND OUT WHAT TRAINING HE NEEDS. YOU DO THIS BY GIVING HIM A PERFORMANCE TEST. BY LOOKING AT THE RESULTS OF A PERFORMANCE TEST, YOU CAN SEE WHAT HE KNOWS AND DOES NOT KNOW ABOUT A PARTICULAR TASK.
- 2. (Have the students look at the copy of the TA-312/PT Telephone Set Performance test, Test No. 5, and score sheet at the back of this book.) LOOK OVER THIS PERFORMANCE TEST FOR A FEW MINUTES SO YOU ARE FAMILIAR WITH ITS CONTENTS. (While the students are looking over the performance test, set up a testing station to administer the field telephone performance test.

  Do not have a distant station or operator present and do not have any batteries present. Pick one of the students to serve as an examinee.)

I AM GOING TO GIVE THIS SOLDIER A PERFORMANCE TEST ON THE TA-312/PT TELEPHONE SET. WATCH ME CAREFULLY TO SEE IF I CORRECTLY ADMINISTER THE TEST. (Start the test. Tell the examinee, "SINCE WE DON'T HAVE ANOTHER STATION, DON'T BOTHER CONNECTING THE WIRES." As the examinee performs each step, if he performs it correctly say something like, "That's good;" if he performs it incorrectly, say something like, "You blew that one." If the examinee asks you for batteries, tell him you do not have any and to skip installing the batteries. Allow the examinee to complete the test.)

WHAT DID I DO WRONG? (In the discussion, stress that you should have had all required equipment present and operational, including a distant station and batteries; that you should not have skipped any steps; that you should not have commented on the examinee's performance while the test was being conducted; and that you should have read the instructions aloud to the examinee before beginning the test.)

3. YOU ARE NOW GOING TO TRY ADMINISTERING A PERFORMANCE TEST. (Take one student at a time out of sight and hearing range and have him administer the field telephone performance test. You will serve as the examinee for this test. Make two or three mistakes during the test. (Example: put both batteries in the up position.) After the test has been completed, check that the student has scored your performance correctly. If the student has made any mistakes in the administration or scoring of the test, explain to him what he did wrong. If you feel he is not sure of how to properly administer a performance test, have him administer the test again and provide whatever additional counseling he may need. Critique the scorer on such things as whether he has scored you correctly and whether he has responded properly to unusual situations you have created.)

### Administering Refresher Training

- 1. AFTER YOU HAVE ADMINISTERED ALL OF THE PERFORMANCE TESTS,
  YOU WILL HAVE TO ADMINISTER WHATEVER PERFORMANCE-ORIENTED
  REFRESHER TRAINING THE EXAMINEE NEEDS.
- 2. YOU WILL USE THE SCORE SHEETS OF THE PERFORMANCE TESTS
  TO FIND OUT WHAT REFRESHER TRAINING IS NEEDED. ALWAYS
  REMEMBER THAT THIS IS PERFORMANCE-ORIENTED REFRESHER
  TRAINING. THE WORDS PERFORMANCE-ORIENTED ARE THE KEY
  WORDS. WHAT THIS MEANS IS THAT IF AN EXAMINEE PASSES
  ALL STEPS OF A PERFORMANCE TEST, HE KNOWS HOW TO PERFORM
  THE TASKS COVERED BY THE TEST AND HE DOES NOT NEED ANY
  TRAINING ON HOW TO PERFORM THOSE TASKS. IF AN EXAMINEE
  PASSES ALL OF THE STEPS OF A PERFORMANCE TEST EXCEPT ONE,
  HE NEEDS ONLY THE REFRESHER TRAINING WHICH COVERS THE
  TASKS IN THE ONE STEP HE FAILED TO PERFORM CORRECTLY,
  AND HE DOES NOT NEED ANY TRAINING WHICH COVERS THE TASKS
  IN THE STEPS HE PERFORMED CORRECTLY BECAUSE HE HAS SHOWN
  THAT HE ALREADY KNOWS HOW TO PERFORM THOSE TASKS.
- 3. THIS MAY SOUND CONFUSING, BUT IT WILL BECOME EASY FOR YOU TO UNDERSTAND. (Pass out the sample score sheets.) LOOK AT SAMPLE SCORE SHEET NO. 1. WHAT REFRESHER TRAIN-ING DOES THE EXAMINEE REQUIRE FOR THE TASKS COVERED BY THIS TEST? (The students should answer "none.") THE EXAMINEE DOES NOT NEED ANY REFRESHER TRAINING FOR THE TASKS COVERED BY THIS TEST BECAUSE BY PASSING ALL STEPS IN THE TEST, HE HAS SHOWN THAT HE KNOWS HOW TO PERFORM THOSE STEPS. LOOK AT SAMPLE SCORE SHEET NO. 2. WHAT REFRESHER TRAINING DOES THE EXAMINEE REQUIRE FOR THE STEPS COVERED BY THIS TEST? (The students should answer that refresher training is needed for Steps 2 and 5.) THE ONLY REFRESHER TRAINING THAT YOU SHOULD GIVE TO THE EXAMINEE IS THE REFRESHER TRAINING SPECIFIED IN THE REFRESHER TRAINING COLUMN FOR STEPS 2 AND 5. THIS MEANS THAT YOU SHOULD REVIEW PARAGRAPHS 3-12 THROUGH

3-16 WITH HIM, AND SHOULD DEMONSTRATE AND HAVE HIM
PRACTICE LOCATING AND INSPECTING ALL IDLER AND ROAD
WHEELS FOR CORRECT OIL LEVEL. NO OTHER REFRESHER
TRAINING IS NEEDED FOR THE TASKS COVERED BY THIS TEST.
ARE THERE ANY QUESTIONS? HOW WOULD YOU MARK SAMPLE
SCORE SHEETS NO. 1 AND NO. 2, GO OR NO GO? (The students should answer that No. 1 should be marked GO and
No. 2 should be marked NO GO.) NO. 1 SHOULD BE MARKED
GO BECAUSE THE EXAMINEE HAS PASSED ALL OF THE STEPS.
NO. 2 SHOULD BE MARKED NO GO BECAUSE THE EXAMINEE HAS
FAILED ONE OR MORE OF THE STEPS, IN THIS CASE THE
EXAMINEE HAS FAILED TWO OF THE STEPS.

4. ON THE BACK OF SAMPLE SCORE SHEET NO. 3, WRITE DOWN
WHAT REFRESHER TRAINING SHOULD BE GIVEN TO THE EXAMINEE
WHO TOOK THIS TEST. ALSO, SCORE THE SCORE SHEET
EITHER GO OR NO GO. (Check the answers of each student
and counsel any student who made a mistake.)

# SCORESHEET FOR ENERGIZING THE M-S4 LAUNCH STATION

Instructions to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK AT THIS STATION IS TO ENERGIZE THE M-54 LAUNCH STATION ACCORDING TO TM 9-1440-585-10, TABLE 2-9, PAGE 2-30. (Note: Scorewill open TM 9-1440-585-10, TABLE 2-9, PAGE 2-30. (Note: Scorewill open TM 9-1440-585-10 to page 2-30 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL. EVEN IF YOU DO NOT HAVE TO CHANCE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 15 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, say, "DO THE BEST NOU CAN."	REFRESHER TRAINING	TEC LESSON NO. 043-441-7803F and 7804P, plus at least one supervised practice in		:	•
: "LET HE HAVE Y 440-585-10, TABLE EDURE TELLS YOU T TO CHANCE ITS PO ITCHES YOU WILL B AND CAUTIONS. Y CHECKED AND IS IN AND THE INSTRUCTI E STILL does not	11	TEC LESSO Plus at 1			
wact words aloud: ORDING TO TM 9-14 e.) "IF THE PROGR YOU DO NOT HAVE CONTROLS AND SWI SAFETY WARNINGS QUIRED HAS BEEN ( "DO YOU UNDERSIY If the examines	PASS FAIL		\		\
Instructions to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR IASY THIS STATION IS TO ENERGIZE THE M-54 LAUNCH STATION ACCORDING TO TM 9-1440-585-10, TABLE 2-9, PAGE 2-30. (Note: will open TM 9-1440-585-10 to page 2-30 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OCNTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CHANCE ITS POSITION, TO RECEIVE CREDIT PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. SHOULD COMPLETE THIS TEST WITHIN 15 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee word not understand, say, "DO THE OUNDERSTAND THE INSTRUCTIONS?" IN THE EXAMINEE.	Measures (Sequence is Scored)	If the temperature is below 40 degrees Fahrenheit, the examinee sets the BATTERY HEATER switch to PRIME for ten seconds and then sets the BATTERY HEATER switch to ON. After starting the battery heater the examinee detects the structure went fan fails to operate. (Examinee must report the failure to pass this step.) -OR- If the temperature is above 40 degrees Fahrenheit, the examinee does not start the battery heater and will not defect the vent fan failure at this time.  The examinee must close the rear com-	Sora the MASTER POMPE suitch to OM.	Sets the PRIME POWER switch to MAN.	If the battery heater was not started, the failure of the structure went fan must be detected at this time. After the examinee has detected the structure went fan failure, reconnect electrical power to the fan and tell the examines to continue with the energizing procedure.
Instructions to Examinee. IT THIS STATION IS TO ENERGIZE Will open TM 9-1440-585-10 to CONTROL, YOU MUST TOUCH THAT STEP OF THE THE LOCATION OF THE CONTROLS THE TECH MANUAL TO PERFORM TISHOLD COMPLETE THIS TEST WIND THE Understand, repeat the YOU CAN."	Performance Measu	Fatrenhell, the entrance of the entrance of the season of the season of the season of the sample of the failur report the failur oper report the failur of the battery heate the vent fan fail The examine mattery heate the vent fan fail The examine must heat of the failur of the vent fan fail of the examine must heat of the fail of the examine must heat of the fail of the mattery heatery heatery heatery heater the vent fan fail of the mattery heater the mattery heater the fail of the mattery heater the matter of the fail of the mattery heater the mattery heater the matter of the fail of the matter o	Sera the MASTER P	Sets the PRIME PO	If the battery he the failure of th must be detected the examine has vent fan failure, power to the fan to continue with
Instructions to THIS STATION IS WILL OPEN TH 9-1 CONTROL, YOU MUS PERFORMING THAT THE LOCATION OF THE TECH MANUAL SHOULD COMPLETE NOT UNDERSTAND YOU CAN."	Step		ئى	<b>; .</b>	<b>,</b>

SCORESHEET FOR PERFORMING M730

"LET ME HAVE YOUR ATTENTION. YOUR TASK AT ER BEFORE OPERATIONS PM CHECKS

The scorer will read these exact words aloud: "LET ME HAVE YOUR ALLENIOUS, TOOK TABLE 3-1, M BEFORE OPERATION PM CHECKS ON THE M730 CARRIER ACCORDING TO TM 9-1450-585-10, TABLE 3-1, will open TM 9-1450-585-10 to page 3-4, Table 3-1 for the examinee.) "If THE PROCEDURE TELLS TCH OR CONTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CHANGE ITS IT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU RYOU THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND RKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 40 MINUTES." (Pause) "DO YOU UNDERIGHE examinee does not understand, repeat the instructions word for word. If the examinee, say, "DO THE BEST YOU CAN."	REFRESHER TRAINING	Demonstration/Practice		Review Paragraphs 3-12 thru 3-16	Demonstration/Practice		Review Table 3-1	Demonstration/Practice		Review Table 3-1
aloud: "T CARRIER A Lable 3-1 TH OR CONT UND SWITCH WM YOUR CH IS TEST WI Deat the in	FAIL			7				>		
wact words  N THE M730 page 3-4, 1 THAT SWITT THE PROCEI CONTROLS I L TO PERFOI OMPLETE THI	PASS	7			`\	`\				
INSTRUCTIONS to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ALLEATOR TO THE ADDITION. TOOL AND THIS STATION IS TO PERFORM BEFORE OPERATION PM CHECKS ON THE M730 CARRIER ACCORDING TO TH 9-1450-585-10, TABLE 3-1, PAGE 3-4." (Note: Scorer will open TM 9-1450-585-10 to page 3-4, Table 3-1 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU MUST TOUGH THAT SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CHANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUGHING THE CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 40 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. If the examine still does not understand, say, "DO THE BEST YOU CAN."	Performance Measures (Sequence not Scored)	. Checks the tracks, road wheels, idler wheels, and sprockets for excessive wear or damage.	QUESTION: What would you do if you found a defective carrier component?	ANSWER: Record the defect on DA Form 2404 and report it to organizational maintenance.	. Checks shock absorbers and torsion bars.	QUESTION: How can you tell if any of the torsion bars are broken?	ANSWER: The road wheel will lift easily.	. Checks idler and road wheels for correct oil level.	. QUESTION: What is the correct oil level?	ANSWER: Oil should be visible halfway up the sight indicator.
THI THI PAGI YOU WILLI CAUT CHEC	Step	i	2.		ď	4		Ŋ	.9	

TEST NO. 1

SCORESHEET FOR PRE-ENERGIZING THE M-54 LAUNCH STATION

TM 9-1440-585-10 TABLE 2-8, PAGE 2-28." (Note: Scorer will open TM 9-1440-585-10 to page 2-28 for the examinee.) "THE ALTITUDE SETTING YOU WILL USE IS AND THE TEMPERATURE SETTING IS. THESE READINGS WILL BE USED FOR YOUR TEST. IF THE PROCEDURE TELLS YOU TO CHECK UR SET A SWITCH OR CONTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL, EVEN IF THIS STATION IS TO SET ALL SWITCHES AND CONTROLS ON THE M-54 LAUNCH STATION TO THE PRE-ENERGIZE POSITION ACCORDING TO YOU DO NOT HAVE TO CHANCE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUSI USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST IN 12 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. the examinee still does not understand say. "NO THE REST YOU CAN " The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION.

the exeminee still goes not understand, say, "DO INE BEST YOU CAN."	Performance Measures (Sequence is Scored) PASS FAIL REFRESHER TRAINING	Sets the MASTER POWER switch to OFF.	Sets COMM switch to OFF.	Sets the PRIME POWER switch to OFF.	Sets the ERECT-RETRACT BREAKER to ON.	If the temperature is above 40 degrees Fahrenheit, sets the MISSILE HEATER BREAKERS STORED LEFT to OFF. If the temperature is below 40 degrees Fahrenheit, sets it to ON.	Sets MISSILE HEATER BREAKERS RIGHT STORED to the appropriate position.	Sets MISSILE HEATER BREAKERS LAUNCH RAILS to the appropriate position.	QUESTION: Ask the examinee, when should the missile heater circuit
the examinee still o	Step Performanc	1. Sets the M	2. Sets COMM	3. Sets the P	4. Sets the E	5. If the tem Fahrenheit BREAKERS S temperatur enheit, se	6. Sets MISSI STORED to	7. Sets MISSI RAILS to t	8. QUESTION:

When the temperature is 40

ANSWER: When the temperatur degrees Fahrenheit or below.

;		į	,	
Step	Performance Measures (Sequence is Scored)	PASS	FAIL	REFRESHER TRAINING
æ	Uses nomograph and sets ALTITUDE switch to the correct position. (Give the examinee the Altitude and Temperature reading that have been pre-recorded.)	7		TEC LESSON NO. 043-441-7801F, plus at least one supervised practice run.
10.	Sets MOUNT CONDITIONING switch to OFF.	7		Ξ
11.	Sets MOUNT CONDITIONING BREAKER to ON.	7		=
12.	Sets BREAKERS-PWR SUPPLY to ON.		7	F
13.	Sets BREAKERS-MOUNT DRIVE to ON.	7		:
14.	Sets MODE switch to STANDBY.	7		
15.	QUESTION: Why must the MODE switch be set to the STANDBY position before energizing the launching station?			
	ANSWER: Because other MODE switch positions will damage the missile by allowing high voltages and high pressure air to be applied. Full gyro spinup may also occur.	>		=
16.	Sets azimuth and elevation brakes to the NORMAL position (fully counterclockwise).	>		=
17.	QUESTION: Are the azimuth and elevation brakes engaged or disengaged in the fully counterclockwise position?	,		
	ANSWER: engaged.	\		:

Examinee obser and cautions c 585-10, Table ote: Score th s one or more ete test again o provide the me from beginn d.	Examinee completed the test within 12  Examinee completed the test within 12  Examinee observed all safety warnings  FAIL REFRESHER TRAINING  TEC LESSON NO. 043-441-7801F, plus at least one supervised practice run.	Scorer's Note: Score the examinee a GO on the Testing Record for Test No. 1 if he PASSES all performance measures. If he fails one or more performance measures, he must receive the indicated refresher training, and then be given this complete test again. Record on the scoresheet any additional information about FAILED items that you feel will have to provide the best refresher training. Record the total number of items PASSED and FAILED. Record	TOTAL SCORE: PASS FAIL ELAPSED TIME: minutes
	Examinee completed minutes. Examinee observed	Scorer's Note: Score the ex If he fails one or more perf this complete test again. R	is retested.

### SECTION 6

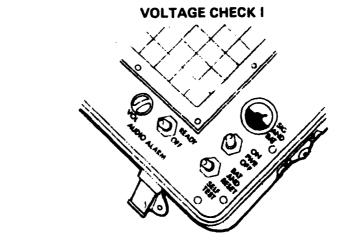
### THE TADDS HANDOUT

PROCEDURES FOR PERFORMING
THE TADDS BATTERY CHECK
AND
THE TADDS SELF-CHECK

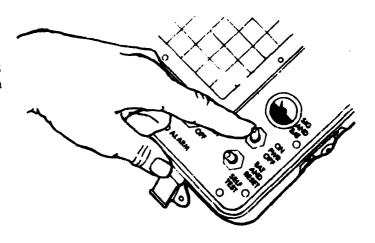
### TEST NO. 1

### BATTERY VOLTAGE CHECK

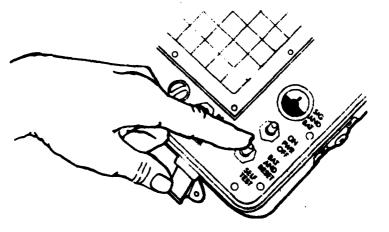
1.
The first operational check
on the TADDS is the battery
voltage check. Low battery
voltage is the most frequent
reason for the TADDS not
working properly.



2.
Begin by opening the TADDS and setting the PWR switch to ON.



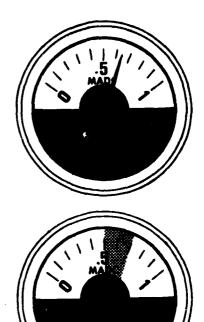
3. Then press and hold this switch at the BAT AND RESET position.



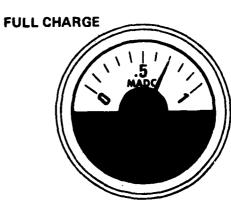
4. Check the position of the needle on this meter.

METER INTERPRETATION (Steps 5 through 9)

For the TADDS to operate, the needle on the meter should always be in this part of the scale, between .5 and .7 on the dial.

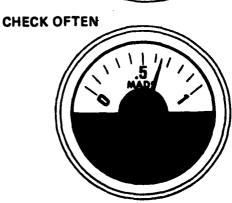


6. When the meter indicates .7, the battery is fully charged.

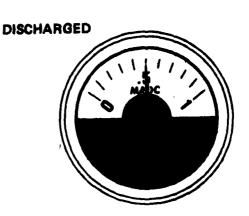


7.

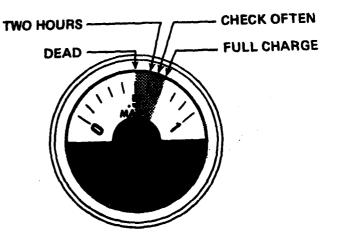
If it is nearer the .6 than .7, the battery is low and should be checked often during operations.



8.
If the needle is at .6 or just below that point, the battery will operate the TADDS for 2 more hours. When it is at the .5 mark, the battery is completely discharged.

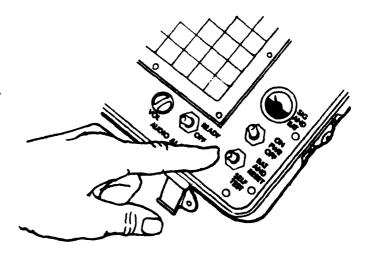


9. Remember these four important meter indications and what each means.



10.
To finish the TADDS battery check, release the BAT AND RESET/SELF TEST switch and set the PWR switch to OFF.

The second secon



Question 1. List these procedures for checking battery voltage in proper order: PWR switch OFF; check meter; PWR switch ON; BAT AND RESET/SELF TEST switch to BAT AND RESET.

b. \_\_\_\_\_

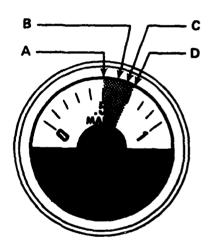
Question 2. Which of these arrows indicate:

\_\_\_\_\_ 2 hours time remaining.

\_\_\_\_ battery should be checked often.

\_\_\_\_ battery fully charged.

\_\_\_\_ battery dead.



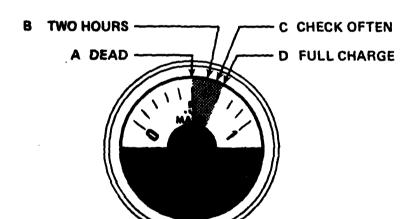
THIS COMPLETES THE TADDS BATTERY VOLTAGE CHECK. IF YOU HAD A PROBLEM WITH ANY PART OF THE TEST, GO BACK AND REPEAT THAT CHECK. GO TO PAGE 6-6 AND CHECK YOUR ANSWERS.

CHECK YOUR ANSWERS HERE. IF YOU SELECTED THE WRONG ANSWER, GO BACK AND REVIEW THAT CHECK.

### Answers

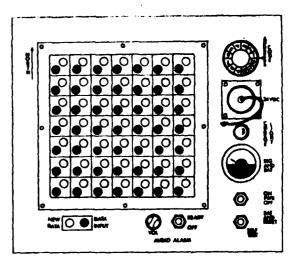
- Question 1. a. PWR switch ON
  - b. BAT and RESET/SELF TEST switch to BAT AND RESET
  - c. check meter
  - d. PWR switch OFF

Question 2. Look at the illustration below and check your answers.

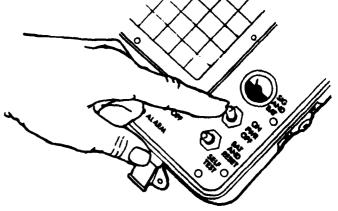


## PERFORMING THE TADDS SELF-TEST CHECK

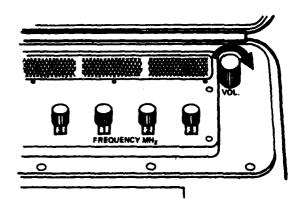
1. This check assures you that all the colored disk indicators on the TADDS display are working, and to check that the AUDIO ALARM works.

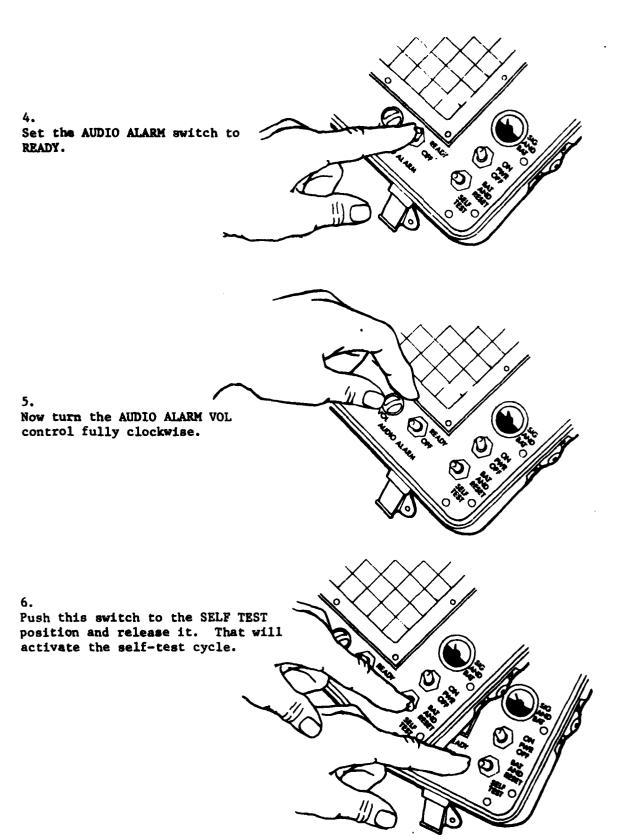


2. First, set the PWR switch to ON.

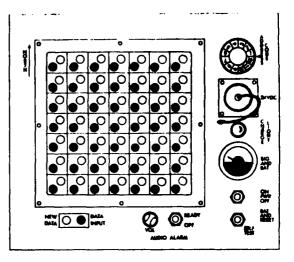


3. Then turn the FM receiver VOL control fully clockwise.

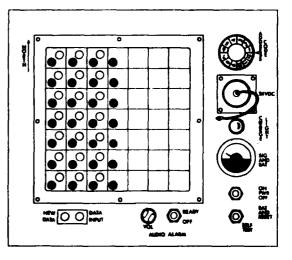




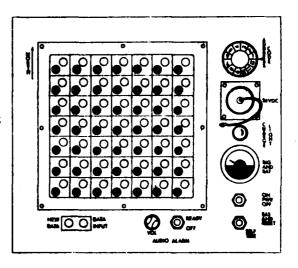
7.
Activating the SELF-TEST will cause all the disk indicators on the displays to turn so that they show orange and green sides. At the end of each cycle, the AUDIO ALARM will sound. All 49 matrix squares must show both orange and green.



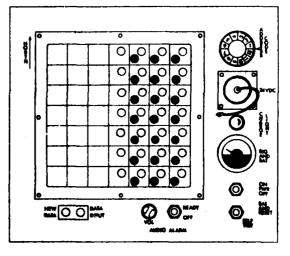
8.
Here is the sequence you will see on the TADDS. First, both halves of the matrix will start out black. The DATA INPUT indicator will show green momentarily, then black. The AUDIO ALARM will sound two beeps.
The left 3 rows of the matrix will show orange and green, and the middle row will show only orange from top to bottom in sequence, and the DATA INPUT indicator will show green momentarily, then black.



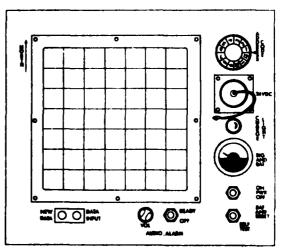
10.
The NEW DATA indicator will show orange momentarily, then black. The AUDIO ALARM will sound one beep and the right half (3½ rows of the matrix indicators) will show orange and green from top to bottom in sequence.



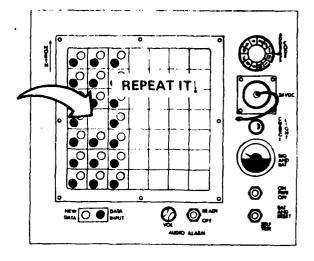
11.
The left half (3½ rows) will erase from top to bottom in sequence. The DATA INPUT indicator will show green, then black, and the NEW DATA indicator will show orange, then black.



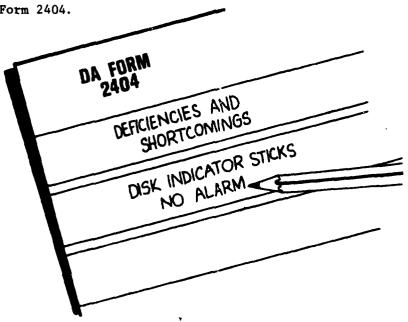
12.
The AUDIO ALARM will sound two beeps and the right half (3½ rows) of the matrix indicator will erase from top to bottom in sequence. At this point, set the PWR switch to OFF.



13.
You may want to repeat the test several times to be sure all the indicators flip. If you detect a failure, make sure there is a real problem by repeating the test.



14.
If a condition persists, report the problem to organizational maintenance on a DA Form 2404.



THIS COMPLETES THE TADDS SELF-CHECK

## CHAPARRAL PERFORMANCE TESTING RECORD

NOS	NAME		<del></del>	SSN		
TEST SCORE SUMMARY  TOTAL NUMBER OF CHECKS RESULT  PASS FAIL Z PASS GO NO GO  TEST 1  TEST 2  TEST 3  TEST 4  TEST 5  TEST 6  SCORER'S NOTES:  1. Reasons for failures:	MOS			UNIT		
TOTAL NUMBER OF CHECKS  PASS FAIL Z PASS GO NO GO  TEST 1  TEST 2  TEST 3  TEST 4  TEST 5  TEST 6  SCORER'S NOTES:  1. Reasons for failures:	TEST DATE		<del></del>	AIT GRADUA	TION DATE	
PASS         FAIL         Z PASS         GO         NO GO           TEST 1			TEST SCOR	RE SUMMARY		•
TEST 1		TOTAL NUMBE	R OF CHECKS		RES	ULT
TEST 2		PASS	FAIL	Z PASS	<u>G0</u>	NO GO
TEST 4	TEST 1	<del></del>				-
TEST 5 TEST 6 SCORER'S NOTES:  1. Reasons for failures:	TEST 2					
TEST 5 TEST 6 SCORER'S NOTES:  1. Reasons for failures:	TEST 3	<del></del>	<del></del>			<del></del>
TEST 6  SCORER'S NOTES:  1. Reasons for failures:	TEST 4			<del></del>		-
SCORER'S NOTES:  1. Reasons for failures:	TEST 5					<del></del>
1. Reasons for failures:	TEST 6			<del></del>		
	SCORER'S NOTE	S:				
	1. Reas	ons for fail	ures:			
2. Special Considerations for Refresher Training:	<del></del>					
2. Special Considerations for Refresher Training:						
2. Special Considerations for Refresher Training:	<del> </del>		- <del></del>		<del></del>	
2. Special Considerations for Refresher Training:	<del></del>	<del></del>			<del></del>	
2. Special Considerations for Refresher Training:						<del></del>
	2. Spec	ial Consider	stions for R	Refresher Tra	ining:	
	-	· · · · · · · · · · · · · · · · · · ·			<del></del>	
					<del></del>	·
				· · · · · · · · · · · · · · · · · · ·		

## CHAPARRAL PERFORMANCE TESTS

## General Instructions for Administering and Scoring

- 1. Have the examinee fill in the items at the top of the Testing Record sheet attached to his test booklet. Be sure all items are legible. Be sure MOS includes skill level.
- 2. Verify examinee's identity by his ID card.
- 3. The examinee is not to be informed of his progress during performance of the test. You will score each performance measure (step) either PASS or FAIL as it is performed and check the appropriate space on the scoresheet.
- 4. If an equipment malfunction affecting the test occurs either before or during testing, the malfunction <u>must</u> be corrected before the test is completed. Note such interruptions on the scoresheet, but NEVER LEAVE ANY PERFORMANCE MEASURE INCOMPLETE. You risk invalidating the entire test if an examinee is not tested on <u>exactly</u> the same items as everyone else.
- 5. You will not coach the examinee or answer questions about the steps he must perform.
- 6. Arrange the test site so that waiting examinees cannot observe or hear the ongoing testing.
- 7. If the examinee does not correctly complete all of the performance measures for a given test, he will receive a NO GO for that test, and you (his Squad Leader) will provide him with refresher training on the areas he missed.
- 8. Read to the examinee the instructions that are printed in capital letters at the top of the scoresheet. Read the exact words aloud. When you have finished reading the instructions, ask the examinee if he understands what he is required to do. If he does not understand, read the instructions again. If he still does not understand, tell him to do the best he can, and begin.
- 9. Time each test, and write the time it took the examinee to complete it on the last page of the scoresheet.
- 10. To achieve total standardization of testing, YOU MUST STRICTLY ADHERE TO THE INSTRUCTIONS STATED ABOVE.
- 11. The following pages present detailed lists of things you will need to have on hand and equipment preparation that will be your responsibility for each of the six Chaparral performance tests.

## SCORER'S INSTRUCTIONS

## PRE-ENERGIZING THE M-54 LAUNCH STATION

## Objective

To measure the examinee's ability to pre-energize the M-54 launch station in accordance with the steps in TM 9-1440-585-10, Table 2-8.

## Equipment Requirements

- a. M-54 Launch Station
- d. Scorer's ballpoint pen

b. TM 9-1440-585-10

e. Scorer's watch

c. Scorer's clipboard

## Personnel Requirements

- a. One scorer with 16P MOS
- b. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: outdoors (or indoors with proper ventilation) on a level surface, in daylight, no precipitation, and 30°-90°F.
- b. Test Layout
  - (1) Insure that all equipment is operational, and all component parts are present.
  - (2) Set the following switches to OFF: MASTER POWER, COMM, PRIME POWER, ERECT-RETRACT BREAKER, MISSILE HEATER BREAKERS LEFT STORED, MISSLE HEATER BREAKERS RIGHT STORED, MISSLE HEATER BREAKERS LAUNCH RAILS, MOUNT CONDITIONING, MOUNT CONDITIONING BREAKER, BREAKERS-MOUNT DRIVE, and BREAKERS-PWR SUPPLY.
  - (3) Set the MODE switch to TEST.
  - (4) Set the ALTITUDE switch to LOW.
  - (5) Record the altitude and temperature readings (for the local area) to be used in testing.

TEST NO. 1

## SCORESHEET FOR PRE-ENERGIZING THE M-54 LAUNCH STATION

"DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. If the examinee still does not understand, say, "DO THE BEST YOU CAN." (Note: Scorer will open TM 9-1440-585-10 to page 2-28 for the examinee.) "THE AND THE TEMPERATURE SETTING IS THESE READINGS WILL BE USED FOR YOUR ALTITUDE SETTING YOU WILL USE IS
AND THE TEMPERATURE SETTING IS
THESE READINGS WILL BE USED FOR YOUR
TEST. IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU HUST TOUCH THAT SWITCH OR CONTROL, EVEN IF
YOU DO NOT HAVE TO CHANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE
CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL THIS STATION IS TO SET ALL SWITCHES AND CONTROLS ON THE M-54 LAUNCH STATION TO THE PRE-ENERGIZE POSITION ACCORDING TO TH 9-1440-585-10 TABLE 2-8, PAGE 2-28." (Note: Scorer will open TM 9-1440-585-10 to page 2-28 for the examinee.) "THI ALTITUDE SETTING YOU WILL USE IS AND THE TEMPERATURE SETTING IS THESE READINGS WILL BE USED FOR YOUR The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK AT SAPETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST IN 12 MINUTES." (Pause) Instructions to Examinee.

Step	Performance Measures (Sequence is Scored)	PASS	PAIL	REFRESHER TRAINING
	Sets the MASTER POWER switch to OFF.			TEC LESSON NO. 043-441-7801F, plus
2.	Sets COMM switch to OFF.			least one supervised practice run.
ë.	Sets the PRIME POWER switch to OFF.			=
4.	Sets the ERECT-RETRACT BREAKER to OM.			=
'n	If the temperature is above 40 degrees Fahrenheit, sets the MISSILE HEATER BREAKERS STORED LEFT to OFF. If the temperature is below 40 degrees Fahrenheit, sets it to ON.			=
•	Sets MISSILE HEATER BREAKERS RIGHT STORED to the appropriate position.	}	ļ	
7.	Sets MISSILE HEATER BREAKERS LAUNCH RAILS to the appropriate position.			<b>:</b>
<b>&amp;</b>	QUESTION: Ask the examinee, when should the missile heater circuit breakers be set to ON?			

When the temperature is 40

ANSWER:

degrees Fahrenheit or below.

at

ANSWER: engaged.

REFRESHER TRAINING	TEC LESSON NO. 043-441-7801F, plus at least one supervised practice run.	=	he examinee a GO on the Testing Record for Test No. 1 if he PASSES all performance measures.  performance measures, he must receive the indicated refresher training, and then be given  n. Record on the scoresheet any additional information about FAILED items that you feel will  best refresher training. Record the total number of items PASSED and PAILED. Record  ning to end of test. Circle on each page the refresher training you must provide before he
FAIL			r Test No. e indicate al informa al number the refre
PASS			Record for receive the sy addition ord the tot ord
Performance Measures (Sequence is Scored)	Examinee completed the test within 12 minutes.	Examinee observed all safety warnings and cautions contained in TM 9-1440-585-10, Table 2-8.	Scorer's Note: Score the examinee a GO on the Testing Record for Test No. 1 if he PASSES all performance measures.  If he fails one or more performance measures, he must receive the indicated refresher training, and then be given this complete test again. Record on the scoresheet any additional information about FALLED items that you feel will hely you to provide the best refresher training. Record the total number of items PASSED and FALLED. Record elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he is retested.
Step	18	19.	Scores If he this c help y elapse is ret

ELAPSED TIME: \_\_\_\_ninutes
SCORER'S NAME:

TOTAL SCORE: PASS

## TEST . 2

## SCORER'S ISSTRUCTIONS

## ENERGIZING THE M-54 LAUNCH STATION

## Objective

To measure the examinee's ability to energize the M-54 launch station in accordance with the steps in TM 9-1440-585-10, Table 2-9.

## Equipment Requirements

- a. M-54 Launch Station
- b. TM 9-1440-585-10 (with change 2)
- c. Scorer's clipboard
- d. Scorer's ballpoint pen
- e. Scorer's watch

## Personnel Raquirements

- a. One scorer with 16P MOS
- b. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: outdoors (or indeors with proper ventilation) on a level surface, in daylight, no precipitation, and 30°-90°F.
- b. Test Layout
  - (1) Insure that all equipment is operational, and all component parts are present.
  - (2) Using Table 2-8 of TM 9-1440-585-10, insure that all control settings are properly set to the pre-energized position.
  - (3) Open the rear compartment door.
  - (4) Disable the structure vent fan by disconnecting electrical power to the fan.

TEST NO. 2

## SCORESHEET FOR ENERGIZING THE M-54 LAUNCH STATION

INSTRUCTIONS to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK ATTENTION IS TO ENERGIZE THE M-54 LAUNCH STATION ACCORDING TO TM 9-1440-585-10, TABLE 2-9, PAGE 2-30. (Note: Scorer will open TM 9-1440-585-10 to page 2-30 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CHANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK AT

THEN HAS BEEN CHECKED AND IS IN COLD WORKING CONDITION. TOO 'DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does If the examinee still does not understand, say, "DO THE BEST	REFRESHER TRAINING		TEC LESSON NO. 043-441-7803F and 7804F, plus at least one supervised practice rum.	=	s.	*•	
THE INSTE			TEC 1			_	
BEEN CHECKEN CHECKEN CHECKEND KAMINGE SI	FAIL					ļ	
UIKED HAS "DO YOU U If the e	PASS			İ			
THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT KEQUIKED HAS BEEN CHECKED AND IN TOUR WORKING COMPILION. TOUR SHOULD COMPLIED. IN COUR THIS TEST WITHIN 15 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, say, "DO THE BEST YOU CAK."	Performance Measures (Sequence is Scored)	If the temperature is below 40 degrees Fahrenheit, the examinee sets the BATTERY HEATER switch to PRIME for ten seconds and then sets the BATTERY HEATER switch to GN. After starting the battery heater the examinee detects the structure vent fan fails to operate. (Examinee must report the failure to pass this step.) -OR- If the temperature is above 40 degrees Pahrenheit, the examinee does not start	the battery heater and will not defect the vent fan failure at this time.	The examinee must close the rear compartment door.	Sets the MASTER POWER switch to OM.	Sets the PRIME POWER switch to MAN.	If the battery heater was not started, the failure of the structure vent fan must be detected at this time. After the examinee has detected the structure vent fan failure, reconnect electrical power to the fan and tell the examinee to continue with the energizing procedure.
THE TECH N SHULL CON BUT UNDER YOU CAN."	Stop			2.	÷.		vi a

	•			
Stap	Performance Measures (Sequence is Scored)	PASS	FAIL	REFRESHER TRAINING
Ö	The examinee must vait one minute after the structure vent fan starts and then press the MAN START button. If the MPU fails to start after 10 seconds, the examinee should release the MAN START button and then press it again.	.	1	TEC LESSON NO. 043-441-7803F and 7804
.•	Sets the MASTER POWER and COMM switches to ON.			=
a.	Sets the PRIME POWER switch to AUTO.			:
ં	Sets MOUNT POWER switch to ON. Examinee checks that MOUNT POWER lamp lights, (only if canopy is open), one MISSILE SELECT lamp lights (only if a missile or cryostat is on a rail), DRIVE SYSTEM warning lamp lights, mount went fan operates.			•
10.	When the MFU engine cycles to off, the examinee sets the MODE switch to TEST, READY, and OPERATE. Engine starts in all positions except STANDBY. If engine hasn't stopped after one minute, tell the examinee to go on to the next step, come back to this one when engine cycles off.	1		2
11.	The examinee checks that all rear doors and deck doors are securely closed and latched.			2
12.	The examinee raises and secures the tailgate. (Assist the examinee in raising the tailgate.)		-	
13.	The examinee places fuel tank overflow vents over the tailgate.			2

Step	Performance Measures (Sequence is Scored)	PASS	FAIL	REPRESHER TRAINING
14.	The examinee enters the gunner's compartment, closes and latches the canopy, and connects the headset. CAUTION: He must not grip the canopy support activators when closing the canopy.			TEC LESSON NO. 043-441-7803F and 7804F, <u>plus</u> at least one supervised practice run.
<b>:</b>	The examinee rotates the sight to the action position.			z
16.	The examinee adjusts the seat height, if necessary, to obtain the best sighting position.			=
17.	The examinee adjusts the MOUNT CONDITIONING controls to the desired position. Note: Tell the examinee not to erect the mount or establish communication at this time. He should go on to Step 18 in the procedure.			2
18.	The examinee adjusts the sight recticle brightness.			
19.	The examinee adjusts the MISSILE TOHE VOLDHE control so that the interlock warning tone is clearly heard.			
20.	Examinee completed the test within 15 minutes.			ε
77.	Examinee observed all safety warnings and cautions contained in TM 9-1440-585-10, Table 2-9.			=

Scorer's Note: Score the examinee a CO on the Testing Record for Test No. 2 if he PASSES all performance measures.

If he fails one or more performance measures, he must receive the indicated refresher training, and then be given this complete test again. Record on the scoreshest any additional information about FAILED itsms that you feel will help you to provide the best refresher training. Record the total number of items PASSED and PAILED. Record elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he elapsed time from beginning to end of test. is retested.

The state of the s

REFRESHER TRAINING FAIL PASS Performance Measures (Sequence is Scored)

Step

•

Minutes

ELAPSED TIME: SCORER'S NAME:

TOTAL SCORE: PASS

## SCORER'S INSTRUCTIONS

## DEENERGIZING THE M-54 LAUNCH STATION

## <u>Objective</u>

To measure the examinee's ability to deenergize the M-54 launch station in accordance with the steps in TM 9-1440-585-10, Table 2-12.

## Equipment Requirements

- a. M-54 Launch Station
- b. TM 9-1440-585-10
- c. Scorer's clipboard
- d. Scorer's ballpoint pen
- e. Scorer's watch

## Personnel Requirements

- a. One scorer with 16P MOS
- b. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: outdoors (or indoors with proper ventilation) on a level surface, in daylight, no precipitation, and 30°-90°F.
- b. Test layout
  - (1) Insure that all equipment is operational, and all component parts are present.
  - (2) Using Table 2-9 of TM 9-1440-585-10, insure that the launch station is properly energized.
  - (3) Insure that the trigger lock switch is set to OFF and the key is removed.

TEST NO. 3

## SCORESHEET FOR DEENERGIZING THE M-54 LAUNCH STATION

SCORER WILL OPEN TH 9-1440-585-10 to page 2-42 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU MUST TOUCH THAT SWITCH OR CONTROL. AND SWITCHES TO CHANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 10 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" YOUR TASK AT Instructions to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK AN THIS STATION IS TO DEFNERGIZE THE M-54 LAUNCH STATION ACCORDING TO TM 9-1440-585-10, TABLE 2-12, PAGE 2-42." (Note: Scorer will open TM 9-1440-585-10 to page 2-42 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SEI A If the examinee does not understand, repeat the instructions word for word. If the examinee still does not under-stand, say, "DO THE BEST YOU CAN."

Step	Performance Measures (Sequence is Scored)	PASS	FAIL	REFRESHER TRAINING
1.	Sets ARM switch to OFF.			TEC LESSON NO. 043-441-7801F, plus at
2.	Sets MODE switch to STANDBY.			least one supervised practice run.
3.	Sets INTERLOCK OVERRIDE switch to NORMAL.			<b>2</b>
4.	Sets MOUNT CONDITIONING switch to OFF.			<b>:</b>
5.	Sets MOUNT CONDITIONING BREAKER to OFF.			<b>.</b>
	Sets MOUNT POWER switch to OFF.			=
7.	Sets MIKE switch to OFF.			= .
ဆိ	Insures that sight is rotated to stowed position.			=
6	Sets BATTERY HEATER switch to OFF.			=
10.	Sets PRIME POWER switch to OFF.			94
11.	Sets MASTER POWER switch to OFF.			=
12.	Sets COMM switch to OFF.			<b>.</b>

REPRESHER TRAINING	TEC LESSON NO. 043-441-7801F, plus at least one supervised practice run.	r.
FAIL		
PASS		
Performence Messures (Sequence is Scored)	Examinee completed the test within 10 minutes.	Extende observed all safety warnings and cautions contained in TM 9-1440-585-10, Table 2-12.
Step	13.	14.

Scorer's Note: Score the examinee a GO on the Testing Record for Test No. 3 if he PASSES all performance measures. If he fails one or more performance measures, he must receive the indicated refresher training, and then be given this complete test again. Record on the scoresheet any additional information about FAILED items that you feel will help you to provide the best refresher training. Record the total number of items PASSED and FAILED. Record elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he is retested.

PASS	ninutes	
TOTAL SCORE:	ELAPSED TIME:	SCORER'S NAME:

Ł

## SCORER'S INSTRUCTIONS

## BEFORE OPERATIONS PM CHECKS ON THE M730 CARRIER

## Objective

To measure the examinee's ability to perform the BEFORE OPERATIONS checks on the M730 Carrier in accordance with the steps in TM 9-1450-585-10, Table 3-1.

## Equipment Requirements

- a. M730 Carrier
- b. тм 9-1450-585-10
- c. Scorer's clipboard
- d. Scorer's ballpoint pen
- e. Scorer's watch

## Personnel Requirements

- a. One scorer with 16P MOS
- B. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: outdoors or indoors on a level surface, in daylight, no precipitation, and 30°-90°F.
- b. Test layout
  - (1) Insure that all equipment is operational, and all component parts are present.
  - (2) The M730 carrier should be parked on a level surface with the brakes engaged.
  - (3) Set the AIR BOX HEATER switch, WIPER switch, FUEL PUMP switch, driving light selector, BILGE PUMPS switch, master switch and dome light switch to OFF.
  - (4) Remove both wires from the left infrared light.

## SCORESHEET FOR PERFORMING M730 CARRIER BEFORE OPERATIONS PM CHECKS

PAGE 3-4." (Note: Scorer will open TM 9-1450-585-10 to page 3-4, Table 3-1 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CHANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUCHING THE CONTROLS AND SWITCHES YOU "DO YOU UNDER-"LET ME HAVE YOUR ATTENTION. YOUR TASK AT Instructions to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK A. THIS STATION IS TO PERFORM BEPORE OPERATION PM CHECKS ON THE M730 CARRIER ACCORDING TO TM 9-1450-585-10, TABLE 3-1, WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURE IN THE TECH MANUAL TO PERFORM YOUR CHECKS. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 40 MINUTES." (Pause) "DO YOU UNSTAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. If the examine still does not understand, say, "DO THE BEST YOU CAN."

REFRESHER TRAINING	Demonstration/Practice		Review Paragraphs 3-12 thru 3-16	Demonstration/Practice		Review Table 3-1	Demonstration/Practice		Review Table 3-1
FAIL									
PASS				.					
Performance Measures (Sequence not Scored)	Checks the tracks, road wheels, idler wheels, and sprockets for excessive wear or damage.	QUESTION: What would you do if you found a defective carrier component?	AMSWER: Record the defect on DA Form 2404 and report it to organizational maintenance.	Checks shock absorbers and torsion bars.	QUESTION: How can you tell if any of the torsion bars are broken?	ANSWER: The road wheel will lift easily.	Chacks idler and road wheels for correct oil level.	QUESTION: What is the correct oil level?	ANSWER: Oil should be visible halfway up the sight indicator.
Step	i.	2.		3.	4.		'n	•	

REPRESHER TRAINING	Review Paragraph 3~35		Review Paragraph 3-35	Demonstration/Practice	•	Review Table 3-1		Demonstration/Fractice		Review gauge-reading proc	
FAIL			<b>.</b>								
PASS			ITH CHECK				₩ 6.	1			
Performance Measures (Sequence not Scored)	QUESTION: Using TM 9-1450-585-10, Para-graph 3-35 as an aid, show where you will measure track tension.  ANSWER: Between the bottom of the track and the top of the second road wheel	QUESTION: Using TM 9-1450-585-10 Para- graph 3-35 again, tell how much space should be between the bottom of the track and the top of the second road wheel.	වූ	Correctly checks coolant level. (Level to bottom of filler neck.)	QUESTION: What should the correct coolant level be?	ANSWER: To the bottom of the filler neck.	TELL THE EXAMINEE TO SKIP CHECK 5 AND CONTINUE WITH CHECK 6.	Correctly inspects fuel system for leaks. Interprets fuel quantity indicator.	QUESTION: What level is the fuel quantity indicator reading on this vehicle?	ANSUER: Correctly states fuel level for test vehicle.	
Step		œ	TELL THE	<b>.</b>	10.		TELL THE	11.	12.		

Step

FAIL REPRESHER TRAINING	Demonstration/Practice	Demonstration/Practice		Review Faragraphs 3-21, 3-22 Demonstration/Practice		Review Paragraphs 3-14 thru 3-	Demonstration/Practice	
PASS							TH CHECK 11.	1 105.
Performance Measures (Sequence not Scored)	Correctly locates drive belts and checks them for defects. (Examinee is not required to check transfer gear drive belts for this test.)	Correctly inspects batteries for electrolyte level, terminals and cables for corrosion and a coating of grease. Checks for loose hold-down clamps.	OUESTION: What should you use to clean the batteries? ANSWER: A solution of bicarbonate of	sods and water. Correctly inspects all fire extinguishers for serviceable seals, safety wire and	QUESTION: What should you do if you find a fire extinguisher with a broken safety wire?	ANSWER: Report the deficiency on DA Form 2404 to organizational maintenance.	THE EXAMINEE TO SKIP CHECK 10 AND CONTINUE WITH CHECK 11  Correctly checks driving lights.  Examinee must detect that the left inferred light is defective.	Correctly inspects the following controls: steering, braking, shifting, and accelerator. Examinee checks for binding, grabbing, and
Step	13.	14.	15.	16.	17.		INPORM THE 18.	19.

Step	Performance Measures (Sequence not Scored)	PASS	FAIL	REFRESHER TRAINING
20.	Correctly checks warning light indications (with engine stopped). MASTER switch ON, all warning lights should be OFF except LOW OIL pressure light. Battery indicator in red or yellow zone, fuel indicating level of fuel in the tank. Have examinee point out warning indicators.			Demonstration/Practice
23.	Correctly checks for oil leaks (cold checks, engine not running).  Examine must physically locate gage rods and check the oil level in the engine, transmission, differential and final drives.			Demonstration/Practice
22.	Correctly locates and checks the Air Cleaner. Examines must determine the type of filter installed and state how he will make the check.			Demonstration/Practice
23.	QUESTION: When should the Air Cleaner element be cleaned?			
	AMENUEM: After operation in dust or sand (Serial No. 1 thru 308) or when the indicator shows in the red area (Serial No. 309 and up).			Review Table 3-1
24.	QUESTION: What should be used to clean the Air Cleaner element?  ANSWER: Compressed air or sompy water.			Review Paragraphs 3-23 th
25.	Examinee completed the test within 40 minutes.			Practice

Demonstration/Practice REPRESHER TRAINING FAIL Performance Measures (Sequence not Scored) Examinee observed all safety WARMINGS and CAUTIONS contained in TM 9-1450-585-10, Table 3-1. Step 26.

The state of the s

this complete test again. Record on the scoresheet any additional information about FAILED items that you feel will help you to provide the best refresher training. Record the total number of items PASSED and FAILED. Record elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he Scorer's Note: Score the examinee a GO on the Testing Record for Test No. 4 if he PASSES all performance measures. If he fails one or more performance measures, he must receive the indicated refresher training, and then be given is retested.

TOTAL SCORE: PASS FAIL ELAPSED TIME: Minutes SCORER'S NAME

## SCORER'S INSTRUCTIONS

## OPERATIONAL CHECKS ON THE TA-312/PT TELEPHONE SET

## Objective

To measure the examinee's ability to correctly install and operate the TA-312/PT telephone set in accordance with steps in TM 11-5805-201-12, Paragraphs 2-3A, C, D, and F, and 3-2C (LB operation).

## Equipment Requirements

- a. Two TA-312 Telephone Sets (in cases)
- b. TM 11-5805-201-12
- c. One flat tip screwdriver
- d. One pliers TL-13A
- e. Six batteries BA-30

- f. One reel of field wire WD-1/TT
- g. Scorer's ballpoint pen
- h. Scorer's clipboard
- i. Scorer's watch

## Personnel Requirements

- a. One scorer with 16P MOS
- b. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: Outdoors or indoors (with at least 50 feet of separation) on a level surface, in daylight, no precipitation, 30°-90°F.
- b. Test Layout
  - (1) Scorer's Telephone: One operational field telephone TA-312/PT (with batteries) properly installed with at least 50 feet of field wire WD-1/TT attached and strung out to the test telephone. The wire ends at the test telephone should not be stripped.
  - (2) <u>Test Telephone</u>: One operational field telephone TA-312/PT without case or batteries at least 50 feet from the installed TA-312/PT.

- (3) Pliers TL-13A, Batteries BA-30, Screwdriver, and TM 11-5805-201-12 present at the TEST TELEPHONE.
- (4) On the SCORER'S TELEPHONE, set controls as follows:

  LOW-LOUD control set to LOW

  Selector switch set to LB

  EXT-INT switch set to INT
- (5) On the TEST TELEPHONE, set the controls as follows: LOW-LOUD control set to LOW Selector switch set to CB EXT-INT switch set to EXT
- (6) Police-up insulation clippings before each test.

The second of th

FEST NO. 5

# SCORESHEET FOR THE OPERATIONAL CHECKS ON THE TA-312/PT TELEPHONE SET

C, D, AND F TO INSTALL THE TA-312/PT. YOU WILL USE PARAGRAPH 3-2C (LB OPERATION) TO OPERATE THE TELEPHONE." (Note: Scorer opens TM 11-5805-201-12 to paragraph 2-3A for the examinee.) "YOU MUST USE THE PROCEDURES IN THE TECH MANUAL. TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 10 MINUTES." (Pause) "DO YOU UNDERSTAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. If the examinee still does not understand, say, "DO THE BEST YOU CAN." Instructions to Examinee. The scorer will read these exact words aloud: "LET ME HAVE YOUR ATTENTION. YOUR TASK AT THIS STATION IS TO INSTALL AND OPERATE THE FIELD TELEPHONE TA-312/PT ACCORDING TO TH 11-5805-201-12, PARAGRAPHS 2-3A,

REFRESHER TRAINING	Demonstration/Practice	=	=	=	=	Ε	r		2	Practice
FAIL					ł					
PASS	1									
Performance Measures (Sequence not Scored)	Strips insulation from ends of two wires.	Connects wires to telephone set.	Installs batteries correctly	Sets INT-EXT switch to INT.	Sets CB, LB, CBS switch to LB.	Correctly rings distant station.	Removes handset from cradle and waits for distant station to answer.	Has telephone conversation with distant station.	Terminates call correctly.	Examinee completed steps 1-9 within 10 minutes.
Step	નં	3.	3.	4	ų	÷	7.	<b>s</b> ċ	6	10.

this complete test again. Record on the scoresheet any additional information about FALLED items that you feel will Scorer's Note: Score the examinee a GO on the Testing Record for Test No. 5 if he PASSES all performance measures. If he fails one or more performance measures, he must receive the indicated refresher training, and then be given elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he help you to provide the best refresher training. Record the total number of items PASSED and FAILED. Record is retested. REPRESER TRAINING FAIL PASS Performance Messures (Sequence not Scored) Step

TOTAL SCORE: PASS FAIL

Himtes

ELAPSED TIME:

SCORER'S NAME:

7-24

## SCORER'S INSTRUCTIONS

## EMPLACEMENT AND OPERATOR CHECKS AND ADJUSTMENTS ON THE TARGET ALERT DATA DISPLAY SET AN/G8Q-137 (XO-2)

## **Objective**

To measure the examinee's ability to perform emplacement and operator checks and adjustments on the TADDS, AN/GSQ-137, contained in TM 9-1430-589-12, Paragraphs 3-4 thru 3-6 (Emplacement), 5-3 and 5-4 (Self-Test), and 3-15 (March order).

## Equipment Requirements

- a. Target Alert Data Display Set AN/GSQ-137 (XO-2)
- b. TM 9-1430-589-12
- c. Scorer's clipboard
- d. Scorer's ballpoint pen
- e. Scorer's watch

## Personnel Requirements

- a. One scorer with 16P MOS
- b. One examinee with 16P MOS

## Pretest Preparation

- a. Environment: Outdoors or indoors on level surface, in daylight, no precipitation,  $30^{\circ}-90^{\circ}F$ .
- b. Test Layout
  - (1) Insure that the TADDS is operational and all component parts are present.
  - (2) Set the TADDS controls as follows:

FREQUENCY MHz switches to 30.00 MHz.

VOL control fully counterclockwise.

ADDRESS CODE selector to 4.

PWR switch to OFF.

AUDIO ALARM switch to OFF.

AUDIO ALARM VOL control fully counterclockwise.

TEST NO. 6

SCORESHEET FOR THE EMPLACEMENT AND OPERATOR CHECKS ON THE TARGET ALERT DATA DISPLAY SET AN/GSQ-137 (XO-2)

INSETUCTIONS to Examinee. The scorer will read these exact words aloud. "LET ME HAVE YOUR ATTENTION. YOUR TASK AT THIS STATION IS TO EMPLACE AND PERFORM OPERATOR CHECK AND ADJUSTMENTS ON THE TADDS ACCORDING TO TH 9-1430-589-12. FOR THE EMPLACEMENT YOU WILL USE PARACRAPHS 3-4 THRU 3-6. NOTE: YOU WILL USE THE COMPASS IN THE TADDS COVER FOR THIS PART OF THE TEST. TO PERFORM OPERATOR CHECKS YOU WILL USE PARACRAPHS 5-3 AND 5-4 TO INCLUDE STEPS I THRU 4 OF TABLE 5-1." (Note: Scorer will open TH 9-1430-589-12 to page 3-1, paragraph 3-4 for the examinee.) "IF THE PROCEDURE TELLS YOU TO CHECK OR SET A SWITCH OR CONTROL, YOU MUST TOUGH THAT SWITCH OR CONTROL, EVEN IF YOU DO NOT HAVE TO CRANGE ITS POSITION, TO RECEIVE CREDIT FOR PERFORMING THAT STEP OF THE PROCEDURE. BY TOUGHING THE CONTROLS AND SWITCHES, YOU WILL BE SHOWING THE SCORER YOU KNOW THE LOCATION OF THE CONTROLS AND SWITCHES. OBSERVE ALL SAFETY WARNINGS AND CAUTIONS. YOU MUST USE THE PROCEDURES IN THE TECH MANUAL TO PERFORM THIS TASK. ALL EQUIPMENT REQUIRED HAS BEEN CHECKED AND IS IN GOOD WORKING CONDITION. YOU SHOULD COMPLETE THIS TEST WITHIN 15 MINUTES." (Pause) STAND THE INSTRUCTIONS?" If the examinee does not understand, repeat the instructions word for word. examinee will does not understand, say, "DO THE BEST YOU CAN."

REFRESHER TRAINING	TEC LESSON NO. 043-441-1015F, plus at least one supervised practice rum.	ŧ		r		TEC LESSON NO. 043-441-1016F, Plus at	least one supervised practice run.	2	
FAIL								}	ļ
PASS		}							
Performance Measures (Sequence is Scored)	Performs orientation of the TADDS. Using compass in the cover, rotates until arrow aligns with north line.	Correctly installs antenna using correct number of sections for frequency assigned. (Scorer tells the examinee to use 42.85 MHz with address code 8).	GUESTION: When should you install the ground plane antenna?	ANSWER: It's only necessary in a dry climate.	PERFORM BATTERY WOLTAGE CHECK.	Sets the PWR switch to ON.	Sets and holds BAT. AND RESIT/SELF TEST switch to BAT. AND RESET.	Checks that SIG AND BAT. meter indicates between 0.5 and 0.7	Releases BAT. AND RESET/SELF TEST switch.
Step	ï	2	3.		PERFORM	4	'n	•	7.

REFRESHER TRAINING	TEC LESSON NO. 043-441-1016F, plue at least one supervised bractice run.		•		Demonstration/Practice	Demonstration/Practice	Demonstration/Practice	Demonstration/Practice		Demonstration/Practice	Demonstration/Practice		Review Table 5-1, using studemt handout	:	=
FAIL															
PASS												ល អា			
Performance Measures (Sequence is Scored)	Sets PWR switch to OFF.	results in a SIG AND BAT. meter indication of 0.63, what should be done?	ANSWER: The battery voltage check should be performed periodically during operation.	PUSITIONS SWITCHES FOR DATA LINK PROCESSOR DISPLAY SELF TEST CHECK IN ACCORDANCE WITH PARAGRAPH 5-4.	Sets PWR switch to OFF.	Sets VOL control fully clockwise.	Sets AUDIO ALARM switch to READY.	Sets AUDIO ALARM VOL control fully clockwise.	PERFORMS STEPS 1 THRU 4 OF TABLE 5-1.	Sets PWR switch on.	Sets BAT. AND RESET/SELF TEST switch to SELF TEST position and releases.	OBSERVES RESPONSE TO TADDS INDICATORS. EXAMINEE REPEATS TEST UNTIL HE VERIFIES NORMAL INDICATION LISTED IN TABLE.	Observes friend/foe indicators on display matrix.	Observes DATA INPUT indicator (Black between steps).	Listens for correct audio alarm sequence.
Step	<b>&amp;</b>	<b>ં</b>		POSITIO! TEST CHI	10.	11.	12.	13.	PERFORM	14.	15.	OBSERVE TEST UN	16.	17.	18.

क्रिक्ट	Performance Measures (Sequence is Scored)	PASS	FAIL	REFRESHER TRAINING
.6 <u>1</u>	Observes NEW DATA indicator (Black between steps and momentarily orange).			Review Table 5-1, using student handour
20.	QUESTION: If the audio alarm sounds two alarm beeps immediately before step a. (4) of Table 5-1, would you say this is a normal or abnormal indication?			
	ANSHER: Abnormal.			:
21.	Sets PWR switch to OFF.			Demonstration/Practice
NOTE:	SCORER INFORMS EXAMINEE TO MARCH ORDER THE TADDS.	•		
22.	Disconnects antenna and adapter, and replaces in the TADDS cover.	ļ		Demonstration/Practice
23.	Replaces ground plane wires.			Demonstration/Practice
24.	Closes the cover.			Demonstration/Practice
25.	Examinee completes the test within 15 minutes.			Practice to time criterion

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Scorer's Note: Score the examinee a GO on the Testing Record for Test NO. 6 if he PASSES all performance measures.

If he fails one or more performance measures, he must receive the indicated refresher training, and then be given this complete test again. Record on the scoresheet any additional information about FAILED items that you feel will help you to provide the best refresher training. Record the total number of items PASSED and FAILED. Record elapsed time from beginning to end of test. Circle on each page the refresher training you must provide before he is retested.

TOTAL SCORE: PASS FAIL

ELAPSED TIME: Minutes

SCORER'S NAME:

